

MODIS IOT Weekly Report

Mission Operations Days: 2000/0085 to 2000/091

March 24, 2000 20:00:00 GMT to March 31, 2000 20:00:00 GMT

Terra Spacecraft and MODIS Instrument Status:

Terra (AM-1) is in Normal Mode

MODIS is in Science Mode

MODIS has no known Anomalies

Blackbody	On	Nominal
Calibration Electronics	On	Nominal
Control Processor	A On; B off	Nominal
Door: Nadir	Unlatched, open	Nominal
Space View	Unlatched, open	Nominal
Solar Diffuser	Unlatched, closed	Nominal
FDDI Formatter	On	Nominal
FIFO Memory	On	Nominal
Format Processor	A On	Nominal
PC FPA	A On	Nominal
Power Supply: 1	On	Nominal
2	Off	Nominal
PV FPAs: VIS	A On	Nominal
NIR	A On	Nominal
SMIR	A On	Nominal
LWIR	A On	Nominal
Radiative Cooler:		
Outgas Heaters	Off	Nominal
LWIR FPA Heater	On	Nominal
SMIR FPA Heater	Off	Nominal
Scan Assembly	On	Nominal
SDSM	Off	Nominal
SRCA	Off	Nominal
Survival Heaters: PS1	Enabled	Nominal
PS2	Enabled	Nominal
Timing Generator	A On, B Off	Nominal
Flight Software	Rev BD	Nominal
Inhibit Ids Set	54 (SRCA)	Suspended SRCA activity

TMONs enabled

66,67

Nominal

This Week's Completed MODIS Activities:

Friday, March 24, 2000

084/20:02:31 ATC – Moved Formatter to Night up 08:46 to account for roll data increase

084/20:09:57 ATC – Roll slew to –19.0 begins (07:10 slew time plus 01:10 settle time)

084/20:16:59 ATC – Formatter to Day Rate to get all bands during roll

084/20:17:01 ATC – PV DC Restore OFF

084/20:17:03 ATC – PC DC Restore OFF

084/20:17:05 ATC – Sector Rotation to delta of –3072

084/20:25:39 ATC – Sector Rotation to nominal (delta = 0)

084/20:25:41 ATC – PC DC Restore ON

084/20:25:43 ATC – PV DC Restore ON

084/20:25:45 ATC – Formatter to Night Rate

084/20:33:17 ATC – Begin return slew

Saturday, March 25, 2000

No activities

Sunday, March 26, 2000

No activities

Monday, March 27, 2000

087/03:12:28 ATC OA-16 SD/SDSM Screened

087/04:51:21 ATC OA-15 SD/SDSM Open

Tuesday, March 28, 2000

088/07:00:00 ATC Blackbody to 280K

088/12:00:00 ATC Blackbody to 285K

088/15:00:00 ATC Blackbody to 290K

088/16:30:52 Real-time Set Blackbody duty cycle to 100%

088/17:00:00 ATC Blackbody to 295K

088/19:00:00 ATC Blackbody to 300K

088/21:00:00 ATC Blackbody to 270K

088/21:09:56 Real-time Set Blackbody duty cycle to 33%

088/21:10:59 Real-time Reset inhibit ID #54 (SRCA)

Wednesday, March 29, 2000

089/12:00:00 ATC Blackbody to 290K

089/13:45:49 ATC OA-23 SRCA Full Spatial

Thursday, March 30, 2000

090/15:00:00 ATC Blackbody to 315K

090/15:30:00 Real-time Set Blackbody duty cycle to 100%

090/22:00:00 ATC Blackbody to 270K

090/22:09:11 Real-time Set Blackbody duty cycle to 33%

Friday, March 31, 2000

091/05:15:56 ATC OA-22 SRCA Full Spectral Part 1

091/07:10:41 ATC OA-22 SRCA Full Spectral Part 2

091/08:33:06 ATC OA-22 SRCA Full Spectral Part 3

091/10:28:26 ATC OA-22 SRCA Full Spectral Part 4

091/15:58:31 ATC OA-16 SD/SDSM Screened

091/18:51:33 Real-time Set inhibit ID #54 (SRCA) *

091/19:00:00 ATC Blackbody to 290K

This Week's Scheduled MODIS Activities Not Completed:

Monday, March 27, 2000

087/13:58:18 ATC OA-19 SRCA Full Radiometric (inhibited)

Upcoming MODIS Events:

*SRCA activities are scheduled, but inhibited (so they will not execute) unless changes to the inhibit ID (#54) are noted.

Saturday, April 1, 2000

No Activities

Sunday, April 2, 2000

No Activities

Monday, April 3, 2000

094/03:18:07 ATC OA-15 SD/SDSM Open
094/04:10:38 ATC OA-19 SRCA Full Radiometric
094/04:57:00 ATC OA-16 SD/SDSM Screened
094/19:00?? Real-time Reset inhibit ID #54 (SRCA)

Tuesday, April 4, 2000

095/15:00:00 ATC Blackbody to 315K
095/15:00:?? Real-time Set Blackbody duty cycle to 100%
095/22:00:00 ATC Blackbody to 270K
095/22:00:?? Real-time Set Blackbody duty cycle to 33%

Wednesday, April 5, 2000

096/13:51:20 ATC OA-23 SRCA Full Spatial
096/19:00:00 ATC Blackbody to 290K

Thursday, April 6, 2000

097/15:00:00 ATC Blackbody to 315K
097/15:00:?? Real-time Set Blackbody duty cycle to 100%
097/22:00:00 ATC Blackbody to 270K
097/22:00:?? Real-time Set Blackbody duty cycle to 33%

Friday, April 7, 2000

098/10:17:56 ATC OA-22 SRCA Full Spectral Part 1
098/12:12:40 ATC OA-22 SRCA Full Spectral Part 2
098/13:35:05 ATC OA-22 SRCA Full Spectral Part 3
098/15:30:25 ATC OA-22 SRCA Full Spectral Part 4
098/19:00:00 ATC Blackbody to 290K
098/19:00?? Real-time Set inhibit ID #54 (SRCA)

Saturday, April 8, 2000

No Activities

Sunday, April 9, 2000

No Activities

Maneuvers:

Wed, April 12, 2000 - Drag Make-up Burn
Planned GMT Time: 19:48

Thur, April 13, 2000 - Attitude Cal Slews – Pending Science Team Approval
Planned GMT Times: 14:55, 16:34, 18:13, 19:52

Tue, April 25, 2000 - MODIS Yaw Maneuvers
Planned GMT Times: 14:06, 15:46, 17:26, 19:06, 20:45, 22:25

Wed, April 26, 2000 - MODIS Yaw Maneuvers
Planned GMT Times: 13:10, 14:50, 16:30, 18:10, 19:50, 21:29

Thur, April 27, 2000 - Inclination Maneuver
Planned GMT Time: 20:22 (backup time at 22:01)

Fri, April 28, 2000 - Post-inclination Drag Makeup Maneuver
Planned GMT Time: TBS

Tue, May 8, 2000 - Clear Deep Space Cal – Pending Science Team Approval
Planned GMT Time: 16:18

Tue, May 16, 2000 - Lunar Deep Space Cal
Planned GMT Manuver Time: 17:08

MODIS Anomalies:

None.

General Instrument Comments:

MODIS is in Science Mode on the A-side with the SVD and NAD open.

MODIS Telemetry Trends:

Telemetry is nominal.

Non-MODIS Significant Events:

None.

Limited Life Item Status:

SRCA 10W Lamp #1: 148.8 of 500 hours

SRCA 10W Lamp #2: 126.0 of 500 hours

SRCA 10W Lamp #3: 135.2 of 500 hours

SRCA 10W Lamp #4: 61.5 of 500 hours

SRCA 1W Lamp #1: 545.6 of 4000 hours

SRCA 1W Lamp #2: 276.3 of 4000 hours

Solar Diffuser Door: 1178 of 3022 Movements

Nadir Aperture Door: 530 of 1316 Movements

Space View Door: 436 of 1316 Movements